Industrial Thermoregulation

NEW

Products for panels and enclosures

7T Series - Thermo-Hygrostat and Thermostats
7F Series - Filter Fans
7H Series - Panel Heaters
Perfect climate inside panels

A range of products dedicated to maintaining constant temperature in control panels and enclosures.

Thermo-hygrostat and Thermostats
7T Series
Ensures performance of components and instrumentation in control panels and enclosures, and can prolong product life.

Filter Fans
7F Series
New filter fan range to ventilate and safeguard against high enclosure temperatures.

Panel Heaters
7H Series
Prevents the formation of condensation and ensures the optimum temperature within electrical enclosures. Heating power from 50 W to 400 W.
Panel Thermo-Hygrostat

Type 7T.51.0.230.4360

Electronic control
Small, compact size (17.5 mm wide)
1 NO 10 A - 250 V AC
4 functions
Nominal voltage 110...240 V AC/DC
Temperature ranges from +10° to +60°C
Humidity range up to 90%
LED status indication contact ON

Approvals (according to type): CE EAC

**HT: RH > RHset OR Tamb > Tset**

Power is permanently applied to the thermo-hygrostat.
The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset)
OR if the ambient temperature (Tamb) is > of set temperature (Tset).

When contact is closed, LED is ON

**TH: RH > RHset OR Tamb < Tset**

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset)
OR if the ambient temperature (Tamb) is < of set temperature (Tset).

When contact is closed, LED is ON

**HL: RH < RHset**

The contact 13-14 closes if the ambient humidity (RH) is < of set humidity (RHset).

When contact is closed, LED is ON

**HM: RH > RHset**

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset).

When contact is closed, LED is ON
Panel Thermostats

Small, compact size (17.5 mm wide)
1 NC 10 A - 250 V AC
Snap action thermostatic Bimetal sensor
Wide temperature setting range
Long electrical life
35 mm rail (EN 60715) mount

Approvals (according to type): CE EAC C09 UL

Heating control
Should the panel temperature fall below the (minimum) set temperature the contact will close to call for heat. The contact will open when this set temperature is exceeded.

Heating: Red Dial
Temperature ranges: –20° to +40°C
0° to +60°C

Ventilation control
Should the panel temperature exceed the (maximum) set temperature then the contact will close to call for cooling. The contact will open when the temperature falls below this set temperature.

Ventilation: Blue Dial
Temperature ranges: –20° to +40°C
0° to +60°C

Type 7T.81.0.000.240x
Direct switching of heater loads up to 2500 VA

Type 7T.81.0.000.230x
Direct switching of fans up to 130 W

7F Series products

7H Series products
Filter Fans

Easily replaceable filter mat
Minimal depth within enclosure
Air volume (24...100)m³/h
Time-saving installation and maintenance
Very low acoustic noise
Protection category IP54

Approvals (according to type):

**Type 7F.20.8.xxx.1020**
- Operating voltage (120 or 230)V AC
- Air volume 24 m³/h
- Rated power 13 W
- Size 1

**Type 7F.20.9.024.1020**
- Operating voltage 24V DC
- Air volume 24 m³/h
- Rated power 3.6 W
- Size 1

**Type 7F.20.8.xxx.2055**
- Operating voltage (120 or 230)V AC
- Air volume 55 m³/h
- Rated power 22 W
- Size 2

**Type 7F.20.9.024.2055**
- Operating voltage 24V DC
- Air volume 55 m³/h
- Rated power 9 W
- Size 2

**Type 7F.20.8.xxx.3100**
- Operating voltage (120 or 230)V AC
- Air volume 100 m³/h
- Rated power 22 W
- Size 3

**Type 7F.20.9.024.3100**
- Operating voltage 24V DC
- Air volume 100 m³/h
- Rated power 22 W
- Size 3
Exhaust Filters

The size of the Exhaust Filter should match the size of the Filter Fan to achieve the best ventilation within the cabinet.
Time-saving installation and maintenance
Easily replaceable filter mat
Protection category IP54

Approvals (according to type): 

Type 7F.02.0.000.1000
For Filter Fans
Type 7F.20.x.xxx.1020
Size 1

Type 7F.02.0.000.2000
For Filter Fans
Type 7F.20.x.xxx.2055
Size 2

Type 7F.02.0.000.3000
For Filter Fans
Type 7F.20.x.xxx.3100
Size 3
Filter Fans

Minimal depth within enclosure
Air volume (230...630)m³/h
Very low acoustic noise
Protection category IP54

Approvals (according to type):

Type 7F.50.8.xxx.4230
Operating voltage (120 or 230)V AC
Air volume 230 m³/h
Rated power 40 W
Size 4

Type 7F.50.9.024.4230
Operating voltage 24 V DC
Air volume 230 m³/h
Rated power 26
Size 4

Type 7F.50.8.xxx.4370
Operating voltage (120 or 230)V AC
Air volume 370 m³/h
Rated power 70 W
Size 4

Type 7F.50.8.xxx.5500
Operating voltage (120 or 230)V AC
Air volume 500 m³/h
Rated power 70 W
Size 5

Type 7F.50.8.xxx.5630
Operating voltage (120 or 230)V AC
Air volume 630 m³/h
Rated power 130 W
Size 5
Exhaust Filters

The size of the Exhaust Filter should match the size of the Filter Fan to achieve the best ventilation within the cabinet. Minimal depth within enclosure Protection category IP54

Approvals (according to type):

Filter Fans - Available versions

<table>
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<th>Standard versions</th>
<th>EMC versions</th>
<th>Reverse flow versions</th>
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<td>7F.21.8.120.1020</td>
<td>Size 1</td>
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<tr>
<td>7F.20.8.230.1020</td>
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Components

<table>
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<tr>
<th>Standard-Filter Fan</th>
<th>Standard-Exhaust Filter</th>
<th>Filter mat</th>
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<tr>
<td>7F.20.8.xxx.1020</td>
<td>7F.02.0.000.1000</td>
<td>07F.1S Size 1</td>
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<td>07F.2S Size 2</td>
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Type 7F.05.0.000.4000
For Filter Fans
Type 7F.50.x.xxx.4230 or Type 7F.50.8.xxx.4370
Size 4

Type 7F.05.0.000.5000
For Filter Fans
Type 7F.50.8.xxx.5500 or Type 7F.50.8.xxx.5630
Size 5

Components

Standard Filter Fan | Standard Exhaust Filter | Filter Mat |
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Size 1 | Size 2 | Size 3 | Size 4 | Size 5
Panel Heaters

Nominal voltage 230 V AC
PTC resistor, self regulating heating system
Fan assisted heaters
Fast wiring terminals
Safe touch
Clip for 35 mm rail (EN 60715) mount

Approvals (according to type):

Type 7H.51.8.230.0250
Heater power 250 W
Fan assisted
Dimensions (w x h x d): 88.2 x 28.7 x 67

Type 7H.51.8.230.0400
Heater power 400 W
Fan assisted
Dimensions (w x h x d): 88.2 x 28.7 x 67

NOTE
Separate supply (L) terminals for the heater and the internal fan allow them to be powered independently. So, dependent on the specific situation, the installer might wish the heating element to be controlled by an upstream thermostat but require the fan to run continuously (although the latter will significantly reduce the product’s life).
Panel Heaters

Nominal voltage 110...230 V AC/DC
PTC self regulating heating system
Screw terminals
Safe touch
Clip for 35 mm rail (EN 60715) mount

Approvals (according to type):

Type 7H.51.0.230.0025
Heater power 25 W

Type 7H.51.0.230.0050
Heater power 50 W

Dimensions (w x h x d): 41 x 125 x 41 mm

Type 7H.51.0.230.0100
Heater power 100 W
Dimensions (w x h x d): 70 x 140 x 63 mm

Type 7H.51.0.230.0150
Heater power 150 W
Dimensions (w x h x d): 70 x 220 x 63 mm

AC - wiring diagram

DC - wiring diagram